



# AUTOMOTIVE MANAGEMENT SYSTEM

IATF 16949:2016

## TECHNICAL GUIDE



Move Forward with Confidence

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IATF HAS PUBLISHED THE NEW STANDARD FOR AUTOMOTIVE QUALITY MANAGEMENT SYSTEM, IATF 16949 IN OCTOBER 2016.

The new standard is released keeping in mind the automotive industry actors need to adapt continuously to dynamic environment which requests efficiency and adaptability.

This technical guide written by Bureau Veritas automotive experts will help you to prepare and realize a successful transition.

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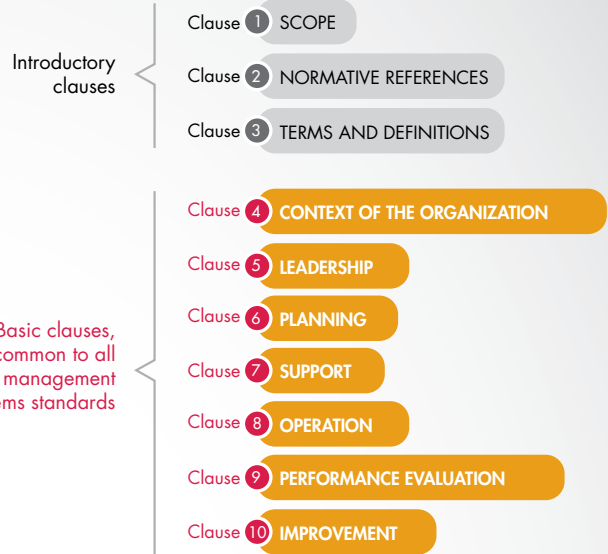
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# IATF 16949:2016 & ISO 9001:2015

IATF 16949 will follow ISO 9001:2015 document structure with the following clauses organization:

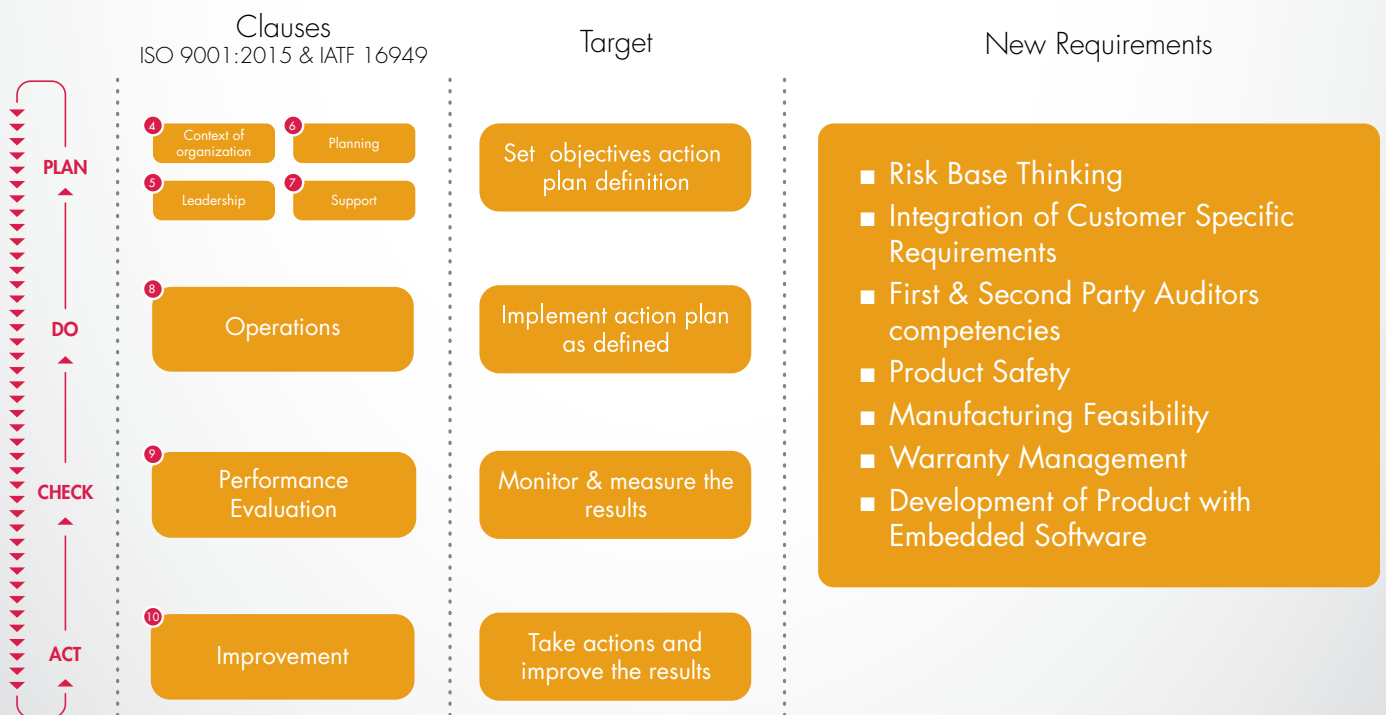
- 10 clauses instead of 8 on previous versions
- Clause 1 to 3 : Generic and introductory clauses information's
- Clause 4 to 10: Clauses replaces previous ones. These will allow to follow the PDCA cycle in coherence with Automotive process management
- IATF 16949 standard does not contain any text from ISO 9001:2015, that's why it is compulsory to get both standard document as soon as possible.
- Organization will have to satisfy both standards during the transition audit
- IATF 16949:2016 only contains Automotive additional requirements



**IATF 16949:2016 & ISO 9001:2015 oriented on same high-level structure and continuous improvement approach**

ISO 9001 : 2015 has developed its clauses structure based on the PDCA approach. This methodology is well known in the automotive industry and coherent with the increasing of continuous improvement requirement and expectations. IATF complemented ISO approach with most recent requirements from Automotive market and supply chain stakeholders.

Note: The new high level structure has been clearly defined in this revision of the standard, for management to drive the organization towards having a robust management system fulfilling customer expectations as a whole.



The organizations are free to interpret the model as it sees fit to their management systems. It's not specifically requested to organize their MS along the same line than clauses.

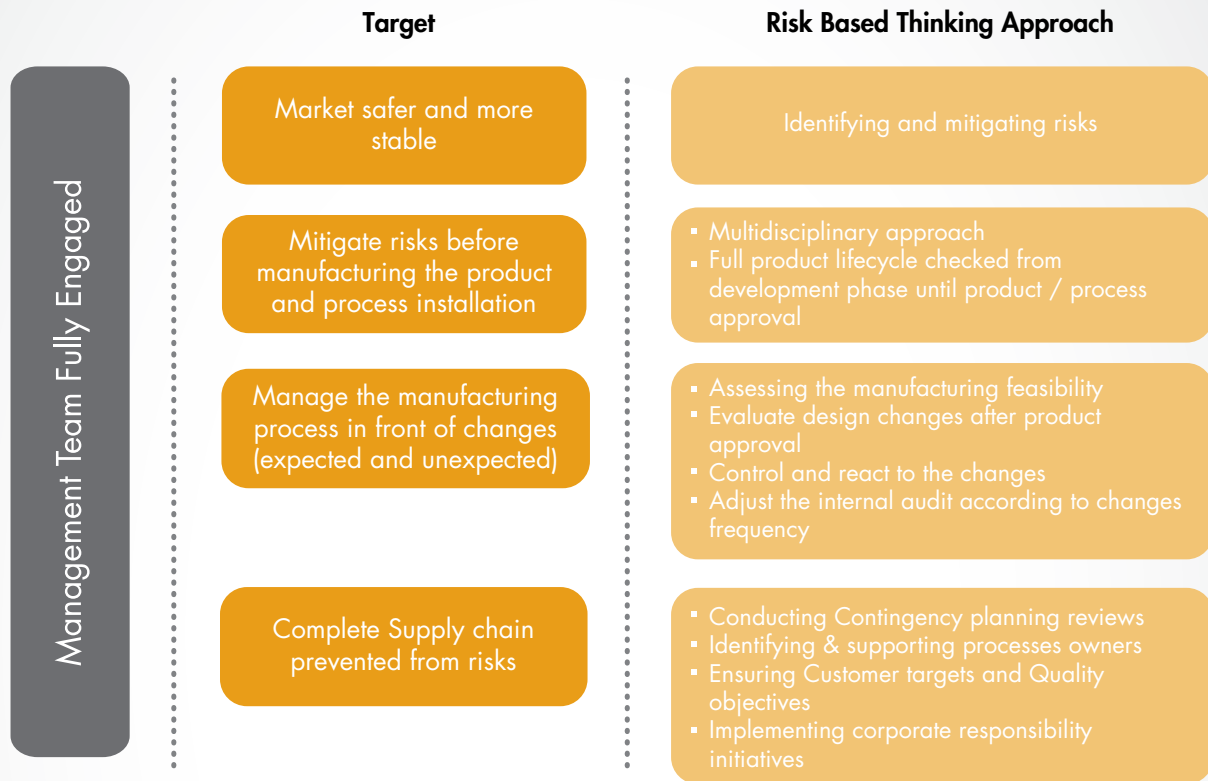
The Organization, the Quality Management System (QMS) documentation and processes need to be focused on the business needs and customer expectations.

# IATF REQUIREMENTS

## RISK BASED THINKING

Organizations are nowadays continuously asked to adapt to various unexpected changes. Based on ISO 9001:2015, IATF 16949 standard focus on the adaptability and anticipation of risks in Automotive actors processes.

It's now a pro-active approach that is requested. Organizations will have to analyze all the potential risks that the entire supply chain could face and define the necessary action plans and processes adaptation, that will be necessary in order to ensure the product and process' reliability, while keeping in mind client requirements satisfaction.



Organizations need to prevent all risks of change and adapt all processes accordingly

## PRODUCT SAFETY

Product Safety is a new requirement in IATF 16949. The purpose is to reinforce product safety and reliability **throughout** its lifetime, starting from the development phase, through the end of its use by the customer. **In all instances**, the product needs to keep its integrity, reliability and performance and what the **purpose of its design**.



\* (Product) Failure Modes and Effects Analysis

Organizations must have processes to ensure product safety throughout the entire product life cycle

## MANUFACTURING FEASIBILITY

On the same way than organization shall integrate risk management in their process, manufacturing capabilities are keys to satisfy clients requirements and targets. This approach will have to be conducted regarding both, expected and unexpected sources of change.

### Target

Capabilities to demonstrate that performance and timing targets specified by customer are satisfied

### Manufacturing Feasibility

- Multidisciplinary approach
  - Manufacturing process & product design analysis for:
    - New product technology
    - New manufacturing process
  - Product &/or process modification
- Ability to demonstrate the manufacturing process is at the best state of the art according to product specifications

Organization must assess their capacity to satisfy customer target in both delivery timing and product performances.

## DEVELOPMENT OF PARTS WITH EMBEDDED SOFTWARE

IATF 16949 standard had to reflect the challenges proposed by a new "driven by wire world". More and more devices and equipment are connected to the numerical world. Suppliers need to ensure the robustness of their equipment in term of reliability, performance all along the supply chain and lifetime of products.

### Target

Product / Manufacturing Process & Supply Chain robustness

### Development Embedded Software

- Product Validation for embedded software products
- Sourcing from Origin management in front of CR
- Risk Management of sourcing & material change

## WARRANTY MANAGEMENT

IATF 16949 standard integrate the necessity to comply with the increase of warranty management importance. This item needs to be integrated in organizations approach and be anticipated much before complains arrive.

### Target

Capability to provide warranty for the product when requested

### Warranty Management Process

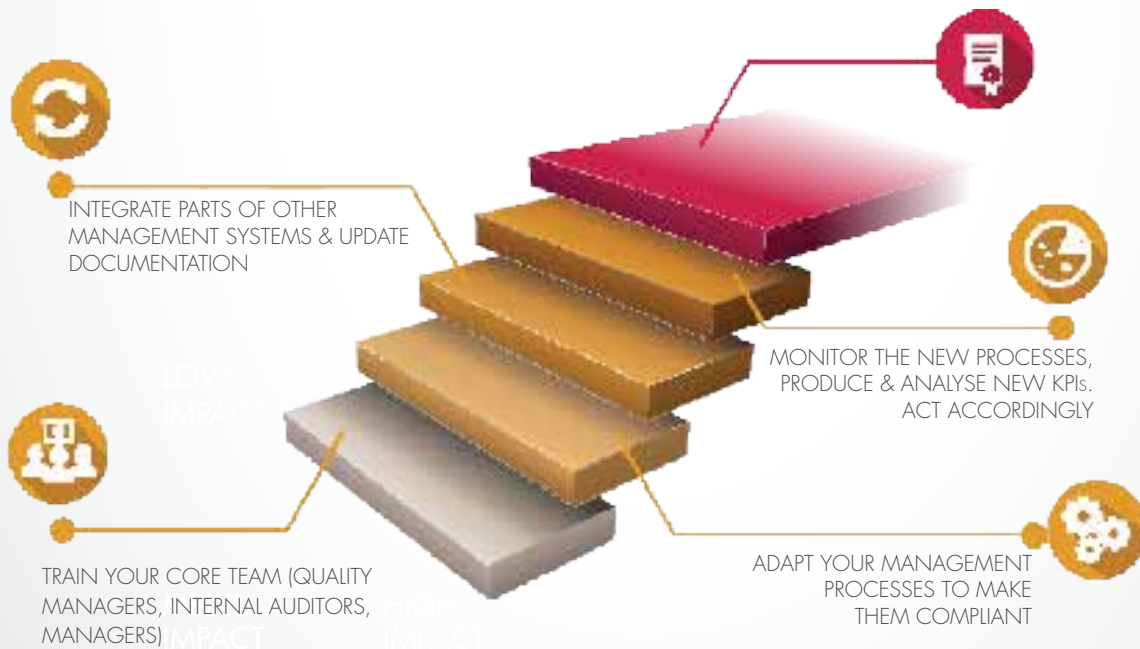
- Address and integrate applicable Customer Special Requirements
- Warranty party analysis procedure to address NTF (No Trouble Found) situation and how to validate them
- Decision Making process to be shared and agreed with the customer when applicable

**NEW REQUIREMENT:  
 OTHER IATF SPECIFICITIES**

IATF 16949 precised specific items on audits competencies management and relationship between the parties

CR & CSR	IATF 16949 clarifies also Customer and Customer Specific Requirements in the Standard.
1st & 2nd Party Auditor	<ul style="list-style-type: none"> <li>Documented process compiling auditor competency</li> <li>Organization, through documentation, must be able to demonstrate the competencies of their trainers.</li> <li>Competencies of 2nd Party Auditor shall be also demonstrated</li> <li>2nd Party Auditors shall meet CSR for auditor qualification</li> </ul>
Auditors competencies	<ul style="list-style-type: none"> <li>Automotive approach including risk based thinking</li> <li>Core tools management capabilities</li> <li>CSR knowledge &amp; CSR satisfaction checking capabilities</li> <li>Software assessment methodologies when applicable</li> </ul>

# GET THE NEW CERTIFICATION IATF 16949:2016





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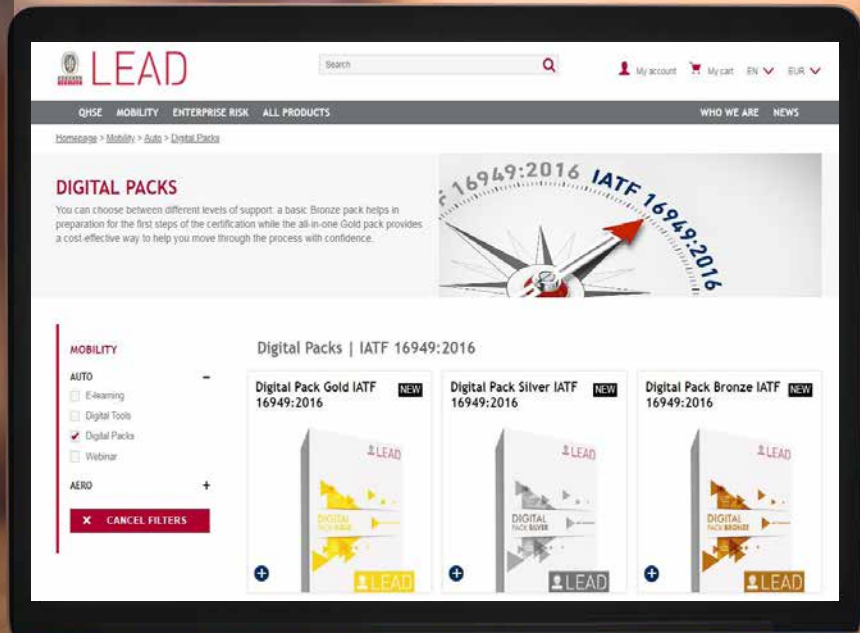
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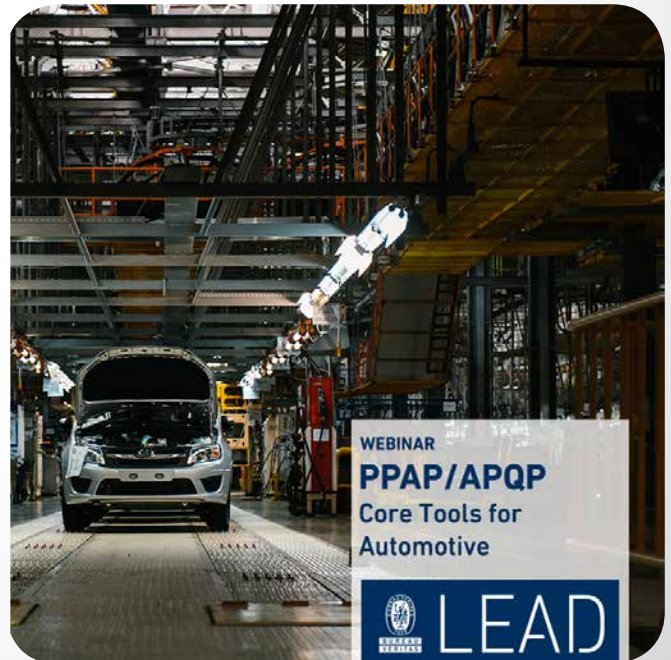
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